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1 Every joule is precious: the case for revisiting operating system desi(

Amin Vahdat, Alvin Lebeck, Carla Schlatter Ellis

September 2000 EW 9: Proceedings of the 9th workshop on ACM SIGOPS E PC: new challenges for the operating system

Publisher: ACM

Full text available: Pdf (71.97 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 116, Citatio

By some estimates, there will be close to one billion wireless devices ca within five years, surpassing the installed base of traditional wired comp take the form of cellular phones, personal digital ...

2 Patient management systems: the early years

W. E. Hammond

December 1987 Proceedings of ACM conference on History of medical inform

Publisher: ACM

Full text available: Pdf (880.60 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 318, Citatio

As I scanned through old papers and reports in preparation for these re the "sameness" of those proposals and descriptions with what is happer are major differences - today's systems ...

3 Real-time eye detection and tracking under various light conditions

Zhiwei Zhu, Kikuo Fujimura, Qiang Ji

March 2002 ETRA '02: Proceedings of the 2002 symposium on Eye trackin(

Publisher: ACM

Full text available: Pdf (602.92 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 200, Citation

Non-intrusive methods based on active remote IR illumination for eye tr applications of vision-based man-machine interaction. One problem that their sensitivity to lighting condition change. This ...

Keywords: Eye Tracking, Kalman Filter, Mean Shift, Support Vector Ma

4 A lighting reproduction approach to live-action compositing

Paul Debevec, Andreas Wenger, Chris Tchou, Andrew Gardner, Jamie Waes
July 2002 SIGGRAPH '02: Proceedings of the 29th annual conference on interactive techniques
Publisher: ACM
Full text available: Pdf (25.36 MB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 126, Citation

We describe a process for compositing a live performance of an actor in is consistently illuminated by the virtual environment. The Light Stage u sphere of inward-pointing RGB light emitting ...

Keywords: global illumination, image-based lighting, matting and com and shading

Also published in:
July 2002 Transactions on Graphics (TOG) Volume 21 Issue 3

5 A photometric approach to digitizing cultural artifacts
Tim Hawkins, Jonathan Cohen, Paul Debevec
November 2001 VAST '01: Proceedings of the 2001 conference on Virtual r heritage
Publisher: ACM
Full text available: Pdf (19.56 MB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 54, Citation (

In this paper we present a photometry-based approach to the digital do Rather than representing an artifact as a geometric model with spatially we instead propose directly representing ...

Keywords: image-based modeling, lighting, rendering

6 Linear light source reflectometry
Andrew Gardner, Chris Tchou, Tim Hawkins, Paul Debevec
July 2003 SIGGRAPH '03: SIGGRAPH 2003 Papers
Publisher: ACM
Full text available: Mov (21:51 MIN), Pdf (12.74 MB) Additional Information: full citat

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 107, Citatio

This paper presents a technique for estimating the spatially-varying refl based on its appearance during a single pass of a linear light source. By point light source as the illuminant, ...

Also published in:
July 2003 Transactions on Graphics (TOG) Volume 22 Issue 3

7 Evolutionary computer vision
Gustavo Olague
July 2007 GECCO '07: Proceedings of the 2007 GECCO conference comp evolutionary computation
Publisher: ACM

Full text available: Pdf (11.30 MB) Additional Information: full citation, index term

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 432, Citatio

Keywords: computer vision, evolutionary computation

8 The development of the Emerald programming language

Andrew P. Black, Norman C. Hutchinson, Eric Jul, Henry M. Levy

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference c languages

Publisher: ACM

Full text available: Mov (54:7 MIN), Pdf (1.45 MB) Additional Information: full citation abstract, r

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 216, Citatio

Emerald is an object-based programming language and system designe Department of Computer Science at the University of Washington in the of Emerald was to simplify the construction of distributed ...

Keywords: Eden, Emerald, Washington, abstract types, call-by-move, mobility, object mobility, object-oriented programming, polymorphism, remote procedure call, type conformity

9 Queue: Volume 6 Issue 1

January 2008 Queue

Publisher: ACM

Full text available: Digital Edition, Pdf (6.04 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 111, Downloads (12 Months): 428, Citati

10 Tactics-based remote execution for mobile computing

Rajesh Krishna Balan, Mahadev Satyanarayanan, So Young Park, Tadashi (

May 2003 MobiSys '03: Proceedings of the 1st international conference and services

Publisher: ACM

Full text available: Pdf (355.71 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 55, Citation (

Remote execution can transform the puniest mobile device into a compu intensive applications such as natural language translation, speech reco augmented reality. However, easily partitioning ...

11 Survey and analysis of multimodal sensor planning and integration fo

Besma R. Abidi, Nash R. Aragam, Yi Yao, Mongi A. Abidi

December 2008 Computing Surveys (CSUR), Volume 41 Issue 1

Publisher: ACM

Full text available: Pdf (1.86 MB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 187, Downloads (12 Months): 187, Citati

Although sensor planning in computer vision has been a subject of rese majority of the research seems to concentrate on two particular applica

of laboratory and industrial workbenches, ...

Keywords: Sensor planning, cooperative sensing, multimodal sensing, object recognition, ubiquitous surveillance, wireless sensor network

12 Perceptual user interfaces: things that see
James L. Crowley, Joëlle Coutaz, François Bérard
March 2000 Communications of the ACM , Volume 43 Issue 3
Publisher: ACM
Full text available: Html (36.13 KB), Pdf (732.99 KB) Additional Information: full citat

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 183, Citatio

13 Projectors: advanced graphics and vision techniques
Ramesh Raskar
August 2004 SIGGRAPH '04: SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: Pdf (6.53 MB) Additional Information: full citation, cited by

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 696, Citatio

14 Communications of the ACM: Volume 51 Issue 12
December 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (6.91 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 2281, Downloads (12 Months): 9874, Cit

15 A CMOS camera-based man-machine input device for large-format i
Gerald D. Morrison
August 2007 SIGGRAPH '07: SIGGRAPH 2007 courses
Publisher: ACM
Full text available: Pdf (588.82 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 171, Citatio

Human-computer interaction using large-format displays is an active ar
how humans can better work with computers or other machines. In ord
be an enabling technology that creates the interface ...

Keywords: computer vision, human-computer interaction, large-forma
smart cameras

16 Communications of the ACM: Volume 51 Issue 11
November 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (8.26 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 733, Downloads (12 Months): 2072, Cita

17 Reincarnating PCs with portable SoulPads
Ramón Cáceres, Casey Carter, Chandra Narayanaswami, Mandayam Raghu
June 2005 MobiSys '05: Proceedings of the 3rd international conference

and services
Publisher: ACM
Full text available: Pdf (199.97 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 92, Citation

The ability to walk up to any computer, personalize it, and use it as one mobile computing research. We present *SoulPad*, a new approach basec operating system along with a suspended ...

18 Web II: web-based simulation of systems described by partial differe
Manuel Alfonseca, Juan de Lara, Hans Vangheluwe
December 2001 WSC '01: Proceedings of the 33nd conference on Winter si
Publisher: IEEE Computer Society
Full text available: Pdf (538.55 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Citation (

This paper describes how to take advantage of Internet services and ob partial differential equations (PDEs) in a distributed manner. This is acc distributed object oriented continuous simulation language ...

19 The parallelization of the perspective shear-warp volume rendering a
Jürgen P. Schulze, Ulrich Lang
September 2002 EGPGV '02: Proceedings of the Fourth Eurographics Works Visualization
Publisher: Eurographics Association
Full text available: Pdf (1.03 MB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 16, Citation (

The shear-warp algorithm for volume rendering is among the fastest vo an object-order algorithm, based on the idea of the factorization of the a 2D warp component. Thus, the compositing ...

20 Integrating gazetteers and remote sensed imagery
Shawn Newsam, Yi Yang
November 2008 GIS '08: Proceedings of the 16th ACM SIGSPATIAL interna geographic information systems
Publisher: ACM
Full text available: Pdf (329.29 KB) Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 31, Citation

This work explores the potential for increased synergy between gazette sensed imagery. These two data sources are complementary. Gazetteer information about what is where but they must be manually ...

Keywords: Markov random fields, appearance modeling, appearance m objects, information integration, interest points, remote sensed imagery

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